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(54) Title: **PROTEINS INVOLVED IN THE REGULATION OF ENERGY HOMEOSTASIS**

(57) Abstract: The present invention discloses *PRL-1* homologous proteins regulating the energy homeostasis and the metabolism of triglycerides, and polynucleotides, which identify and encode the proteins disclosed in this invention. The invention also relates to the use of these sequences in the diagnosis, study, prevention, and treatment of metabolic diseases and disorders.

WO 2004/050117 A1